

-18-

A NON-LINEAR DISPERSIVE PULSE GENERATOR

ABSTRACT

A non-linear dispersive pulse generator for producing pulsed radio frequency electrical signals includes a non-linear dispersive electrical circuit (1) incorporating at least one non-linear element (2) made of a material sensitive to low power signals and a means (5) of producing a variable power control signal (6) and applying it to the element (2) to modify the extent of the non-linearity of the element (2) and thereby vary the output frequency of the radio frequency electrical signal generated by the generator.